(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 31 December 2003 (31,12,2003)

PCT

(10) International Publication Number WO 2004/000948 A1

(51) International Patent Classification⁷: 41/00, C09C 1/42

C09B 63/00,

(21) International Application Number:

PCT/IL2003/000497

(22) International Filing Date: 12 June 2003 (12.06.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data: 150317

19 June 2002 (19.06.2002) II

(71) Applicant (for all designated States except US): YISSUM RESEARCH DEVELOPMENT COMPANY OF THE HEBREW UNIVERSITY OF JERUSALEM [IL/IL]; P.O. Box 39135 Givat Ram, 91390 Jerusalem (IL).

(72) Inventors; and

(75) Inventors/Applicants (for US only): YARIV, Shmuel [IL/IL]; 32 Maale Benjamin Street, 90620 Almon-Anatot D.N., East Binyamin (IL). LAPIDES, Isaak [IL/IL]; 1/16 Alley Qezia Gilo, Jerusalem 93754 (IL). PELED, Hagai [IL/IL]; 20 Alroi Street, Tel Aviv 65147 (IL). YIRMIYAHU, Zohar [IL/IL]; 30 Carcom Street, Zur Hadasa 99875 (IL).

(74) Agent: WOLFF, BREGMAN AND GOLLER; P.O. Box 1352, Jerusalem 91013 (IL).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (regional): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

 before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORGANO-CLAY COMPLEXES

(57) Abstract: The invention provides a process for the preparation of a pigment which is an organo-clay complex comprising introducing an aniline derivative acidified by hydrochloric acid and a secondary aromatic compound into a smectite mineral and treating the same with sodium nitrite solution whereby an azo-dye compound is obtained in the interlayer space of the clay to form pigmented particles.

